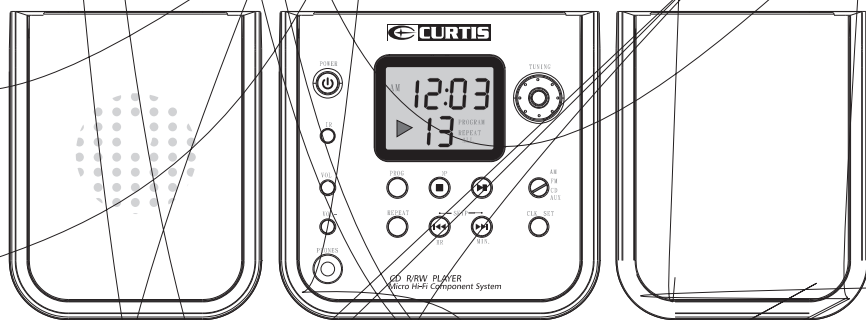




MODEL NO. RCD831

RADIO CD MICRO SYSTEM

OWNER'S MANUAL



PLEASE READ BEFORE OPERATING THIS EQUIPEMNT

SAFETY INSTRUCTIONS



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



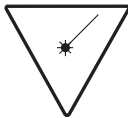
DANGEROUS VOLTAGE:

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



ATTENTION:

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



DANGER:

Invisible and hazardous laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.

FCC WARNING:

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

SURGE PROTECTORS:

It is recommended to use a surge protector for AC connection. Lightning and power surges ARE NOT covered under warranty for this product.

LASER SAFETY: This unit employs a laser. Only qualified service personnel should attempt to service this device due to possible eye injury.

CAUTION: USE OF CONTROLS, ADJUSTMENTS OR PERFORMANCE PROCEDURE HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

INFORMATION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- * Reorient or relocate the receiving antenna.
- * Increase the separation between the equipment and receiver.
- * Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- * Consult the dealer or an experienced radio/TV technician for help.

SAFETY INSTRUCTIONS

Before using the unit, be sure to read all operating instructions carefully. Please note that these are general precautions and may not pertain to your unit. For example, this unit may not have the capability to be connected to an outdoor antenna.

1. READ INSTRUCTIONS

All the safety and operating instructions should be read before the product is operated.

2. RETAIN INSTRUCTIONS

The safety and operating instructions should be retained for future reference.

3. HEED WARNINGS

All warnings on the product and in the operating instructions should be adhered to.

4. FOLLOW INSTRUCTIONS

All operating and use instructions should be followed.

5. CLEANING

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a dry cloth for cleaning.

6. ATTACHMENTS

Do not use attachments not recommended by the product's manufacturer as they may cause hazards.

7. WATER AND MOISTURE

Do not use this product near water—for example: near a bathtub, washbowl, kitchen sink or laundry tub; in a wet basement; or near a swimming pool.

8. ACCESSORIES

Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious injury and serious damage to the product. Use only with a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

PORTABLE CART WARNING
(symbol provided by RETAC)



8A. An appliance and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the appliance and cart combination to overturn.

9. VENTILATION

Slots and openings in the cabinet and in the back or bottom are provided for ventilation, to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product

on a bed, sofa, rug or other similar surface. This product should never be placed near or over a radiator or heat source. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

10. POWER SOURCES

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

11. GROUNDING OR POLARIZATION

This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

12. POWER-CORD PROTECTION

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13. LIGHTNING

To protect your product from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

14. POWER LINES

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

15. OVERLOADING

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

16. OBJECT AND LIQUID ENTRY

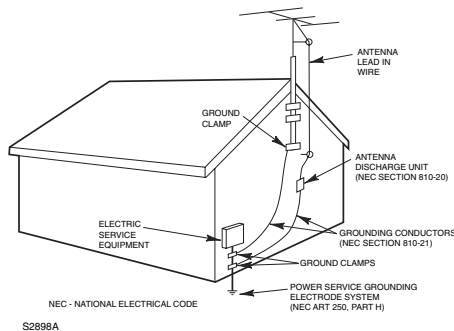
Never push objects of any kind into this product through openings as they may touch dangerous

SAFETY INSTRUCTIONS

voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid on the product.

17. OUTDOOR ANTENNA GROUNDING

If an outside antenna is connected to the product, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electric Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge product, size of grounding conductors, location of antenna discharge product, connection to grounding electrodes and requirements for grounding electrodes.



EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE

18. SERVICING

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. REPLACEMENT PARTS

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

20. SAFETY CHECK

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

21. WALL OR CEILING MOUNTING

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

22. DAMAGE REQUIRING SERVICE

Unplug the product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or the cabinet has been damaged.
- When the product exhibits a distinct change in performance this indicates a need for service.

23. HEAT

The product should be situated away from heat sources such as radiators, heat registers, stoves or other products (including amplifiers) that produce heat.

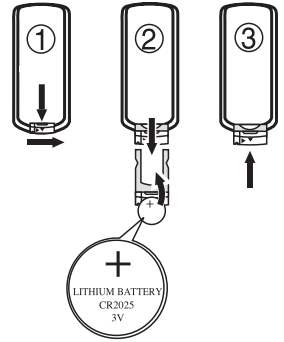
24. NOTE TO CATV SYSTEM INSTALLER

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

NOTES FOR REMOTE CONTROL

To install or replace the battery:

1. Pull the battery tray out of the remote.
2. If you are replacing the battery, remove the old battery and dispose of it properly. Note the orientation of the + and - sides of the battery.
3. Insert the new battery into the battery tray, orienting it the same way the old battery was placed.
4. Close the battery tray.



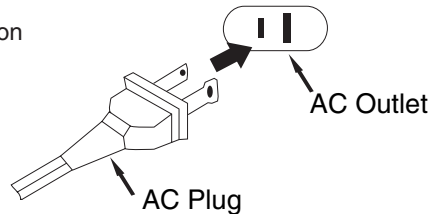
Warning

There is danger of an explosion if you replace the battery incorrectly. Replace only with the same or equivalent battery. You may need to remove protective covering from the remote's battery compartment before using the remote control.

PREPARATION FOR USE

Power Sources

This portable audio system is designed to operate on either 120V AC, 60Hz house current.



AC Operation

Unwind the AC cord and extend it to its full length. Insert the small end of the AC cord into the AC socket on the rear of the unit. Insert the other end of the AC cord into any convenient 120V AC, 60Hz household outlet.

Please note that this unit is equipped with a polarized AC plug which has one blade wider than the other. This is a safety feature to reduce the likelihood of electric shock. This polarized AC plug will only fit in a polarized AC outlet. If you find that you cannot insert this plug into your outlet, you may have an obsolete non-polarized outlet. Please do not try to defeat this safety feature by using a non-polarized adapter or by filing the wider blade to make it fit into your outlet. If this plug does not fit into your outlet, you should contact a qualified licensed electrician to replace your obsolete outlet.

Connecting the Speakers

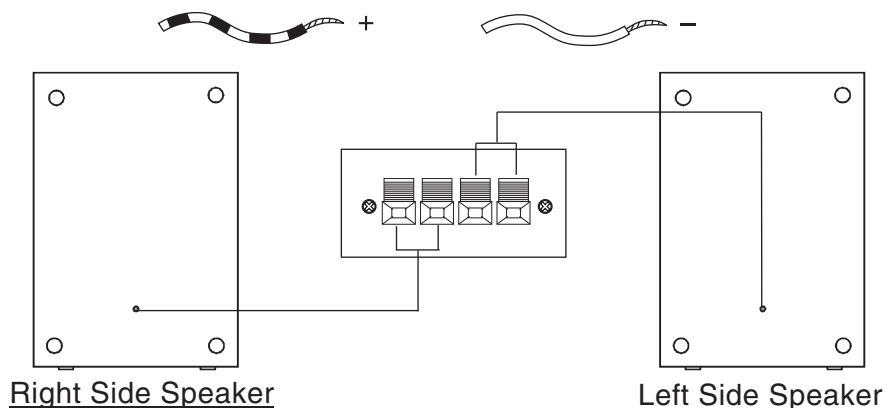
Place the speakers on either side of the main unit.

Connect the speaker on the left side of the main unit to the "L" speaker jack on the back panel.

Connect the speaker on the right side of the main unit to the "R" speaker jack on the back panel.

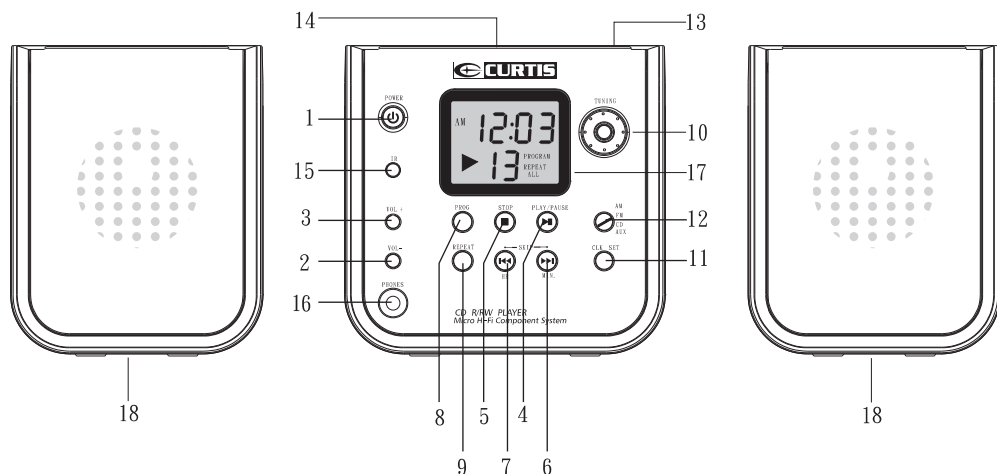
Speaker wire with white strip will connect to "Red" speaker jack and speaker wire without the white strip will insert to "Black" speaker jack.

Make sure the speaker wires are fully inserted and locked into the speaker jacks on the back panel of the main unit.



LOCATION OF CONTROLS

MAIN UNIT:

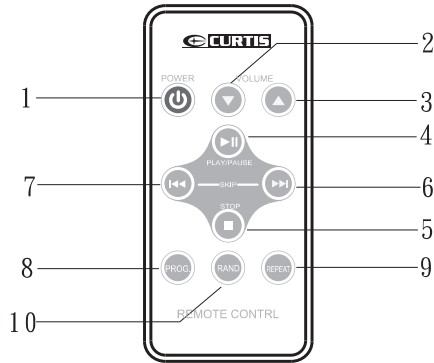


Controls:

- | | |
|--------------------------|--|
| 1. POWER Button | 10. TUNING Knob |
| 2. VOLUME DN Button | 11. CLK SET (Clock Setting) Button |
| 3. VOLUME UP Button | 12. AM / FM / CD / AUX (Function) Selector |
| 4. PLAY / PAUSE Button | 13. OPEN / CLOSE Area |
| 5. STOP Button | 14. CD Door |
| 6. SKIP UP / MIN Button | 15. IR Window |
| 7. SKIP DN / HR Button | 16. PHONE Jack |
| 8. PROG (Program) Button | 17. LCD Display |
| 9. REPEAT Button | 18. SPEAKERS |

LOCATION OF REMOTE CONTROLS

REMOTE:



Controls:

1. POWER Button
2. VOLUME DN Button
3. VOLUME UP Button
4. PLAY / PAUSE Button
5. STOP Button
6. SKIP UP Button
7. SKIP DN Button
8. PROG (Program) Button
9. REPEAT Button
10. RAND (Random) Button

OPERATING INSTRUCTIONS

Checking FM /AM Radio Reception

Your MICRO SYSTEM has a built-in antenna for AM radio. To improve reception, you need to rotate your unit.

Unwind the external FM wire antenna and extend it to its full length to improve the FM reception.

Unpacking and Set Up

- Remove the main unit, the speakers, and the remote control unit from the display carton. Remove all packing materials from the components.
- Unwind the AC power cord and extend it to its full length.
- Unwind the external FM wire antenna and extend it to its full length.
- Remove the twist-ties from the speaker wires.

Placement of the System

The system should be placed on a stable, level surface such as a table, desk, or shelf, convenient to an AC outlet, away from direct sunlight, and sources of excess heat, dust, moisture, humidity, vibration or strong magnetic fields. The speakers may be placed next to the main unit or as far apart as the speaker wires allow. We recommend that you leave a gap of approximately 1/2 inch between the main unit and the speakers so that any vibration from the speakers will not interfere with the CD player in the main unit. Remove the main unit, the speakers, and the remote control unit.

To Select Volume Sound

Press the VOLUME UP or DN Buttons to increase or decrease volume sound.

AUX In:

The AUX in jack can be used to playback alternate audio signal sources on the unit speakers (audio cable is not included).

- Make sure that your radio is turned off and unplugged from the power outlet.
- Plug the audio connectors on 3.5mm audio cable into AUX jack of the unit.
- Plug the other end of the audio cable into the Audio out jack on the other device.
- Slide the FUNCTION Selector button to AUX position and turn on your unit.
- Turn on the external audio device and use the device's controls to control playback.

OPERATING INSTRUCTIONS

Stereo Headphone Jack

You may connect stereo headphones (not included) to the Headphone jack on the front panel of this system for private listening without disturbing others. When headphones are connected the speakers are automatically shut off.

IMPORTANT: Before you connect your headphones, set the VOLUME control of this system to a low level. Then connect your headphones, put them on and gradually increase the volume to a comfortable listening level.

Remember that prolonged listening to loud music at high volume levels through headphones or the in-ear type "ear-buds" can result in hearing loss.

Setting the Actual Time

1. With the power off, press and hold the CLOCK SET Button.
2. Press the SKIP UP / MIN or SKIP DN / HR Buttons to set the clock's hour and minute.
3. Once set, release the CLOCK SET Button to confirm.

Listening to Radio

1. Plug the AC Power cord into a power outlet.
2. Press the POWER button to turn on unit
3. If necessary, Rotate the FUNCTION Select to FM / AM position and the frequency will be show in display.
4. Rotate the TUNING Knob to search the desire station.
5. If you tune to an FM Stereo station the "(ST)" indicator appears in the display.
6. Off power - Press the POWER button to power off the unit.

Listening to a CD

Your unit can play audio CDs, CD-Rs and CD-RWs. CD-Rs and CD-RWs must be finalized before you can play them on your unit.

1. Press the POWER Button to turn on your unit.
2. Rotate the FUNCTION Selector to CD position and CD track "--" appears on the display.
3. Press the OPEN / CLOSE area to open the CD door.
4. Place a CD with the label side up into the CD center spindle and close the CD door.
5. Press the PLAY / PAUSE Button to start playback.
6. During playback: Press the PLAY/PAUSE Button to pause playback and press the button again to resume playback.
7. During playback: Press one of the SKIP UP or DN Buttons to go to the next or previous track on the CD. Press and hold one of the SKIP UP or DN Buttons to fast-forwarding or fast-rewinding for a track on the CD.
8. Press the STOP Button to stop playback.

OPERATING INSTRUCTIONS

To set up a CD program (program up to 20 tracks):

1. Press the POWER Button to turn on your unit, and then rotate the FUNCTION Knob to CD position. The CD track "--" appears on the display.
2. Insert a CD into the CD compartment. If the CD starts playing, press the STOP Button.
3. Press the PROG Button. "01" appears on the display.
4. Press the SKIP UP / DN Buttons one or more times to select the first track you want to program.
5. Press the PROG Button to confirm your selection.
6. Repeat Step 4 and 5 to add more tracks to your program list.
7. When you have finished setting, press the PLAY/PAUSE Button to begin programmed playback.
8. To cancel a CD program: Press the STOP Button twice or turn off your unit.

To repeat a track or an entire CD:

1. Press the POWER Button to turn on your unit, and then rotate the FUNCTION Knob to CD position. The CD track "--" appears on the display.
2. Insert a CD into the CD compartment. Press the PLAY Button to start playing.
3. Press the REPEAT Button once and "REP" will appear on display. The selected track will play and repeat until you press the STOP button control.
4. Press the REPEAT Button twice and "REP ALL" will appear on the display. All tracks of the disc will be repeated. To stop the disc play, press the STOP button control.

NOTES: This operation also applies to CD program playback.

CD Playing Randomly (Remote Control)

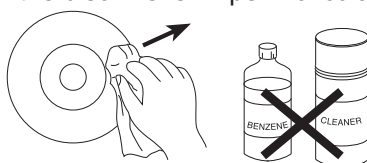
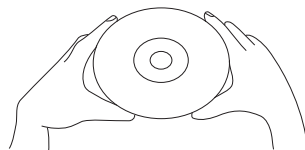
1. Press the POWER Button to turn on your unit, and then rotate the FUNCTION Knob to CD position. The CD track "--" appears on the display.
2. Insert a CD into the CD compartment. Press the PLAY Button to start playing.
3. Press the RAND Button (remote control) once and "RAND" will appear on display. The selected mode will be playing randomly until you press the STOP button control.

NOTES: This operation also applies to CD program playback.

OPERATING INSTRUCTIONS

Caring for Compact Discs

- Treat the disc carefully. Handle the disc only by its edges. Never allow your fingers to come in contact with the shiny, unprinted side of the disc.
- Do not attach adhesive tape, stickers, etc. to the disc label.
- Clean the disc periodically with a soft, lint-free, dry cloth. Never use detergents or abrasive cleaners to clean the disc. If necessary, use a CD cleaning kit. If a disc skips or gets stuck on a section of the disc, it is probably dirty or damaged (scratched). When cleaning the disc, wipe in straight lines from the center of the disc to the outer edge of the disc. Never wipe in circular motions.



- This unit is designed to play only discs bearing the identification logo as shown here. Other discs may not conform to the CD standard and may not play properly.
- Discs should be stored in their cases after each use to avoid damage.
- Do not expose discs to direct sunlight, high humidity, high temperatures, or dust, etc. Prolonged exposure or extreme temperatures can warp the disc.
- Do not stick or write anything on either side of the disc. Sharp writing instruments or the ink may damage the surface.



Cleaning the Unit

- To prevent fire or shock hazard, disconnect your unit from the AC power source when cleaning.
- The finish on your unit may be cleaned with a dust cloth and cared for as other furniture. Use caution when cleaning and wiping the plastic parts.
- Mild soap and a damp cloth may be used on the front panel.

To clean the lens

* If the lens gets dirty, your player may skip or may not play a CD

1. Open the CD door.
2. Use a camera lens blower/brush to blow on the lens once or twice, brush the dust or particles off the lens, then blow again.
3. To remove fingerprints, use a dry cotton swab to wipe from the middle to outer edge of the lens.

TROUBLESHOOTING GUIDE

| PROBLEM | POSSIBLE CAUSE | SOLUTION |
|---------|----------------|----------|
|---------|----------------|----------|

GENERAL

| | | |
|--------------------|-----------------------------------|----------------------------|
| No sound is heard. | Power is not on. | Press the POWER button. |
| | VOLUME Control is set to minimum. | Adjust the VOLUME Control. |

RADIO

| | | |
|--------------------|--------------------------------------|--|
| No sound is heard. | Station has not been tuned properly. | Tune station properly |
| | FM reception is weak. | Extend the FM cord. |
| | Wrong function is selected. | Press the FUNCTION button to the radio position. |

CD

| | | |
|--------------------------------------|--|---|
| All or part of the CD will not play. | CD is inserted incorrectly. | Make sure that the CD is placed in the tray with the label side up. |
| | CD is scratched. | Try another CD. |
| | CD is dirty | Clean the CD with soft cloth |
| | CD is warped | Try another CD. |
| | Condensation has formed inside your CD player. | Remove the CD and leave the CD tray open for about one hour to let the CD player dry out. |
| | Function switch is not set to CD. | Set Function switch to CD |
| | CD compartment not closed | Close CD compartment door. |

SPECIFICATION

| | |
|--------------------|--|
| Power Requirement: | AC 120V 60Hz |
| Frequency Range: | FM 87.5 - 108 mHz AM 530 - 1710 kHz |
| Power Consumption: | 22 W |
| Max Output: | 2.5 W |

LIMITED P